


From the INTERNATIONAL BUREAU

PCTNOTICE INFORMING THE APPLICANT OF THE
COMMUNICATION OF THE INTERNATIONAL
APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

To:



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Date of mailing (day/month/year) 15 April 2004 (15.04.2004)		
Applicant's or agent's file reference M891-PCT		IMPORTANT NOTICE
International application No. PCT/JP2003/012147	International filing date (day/month/year) 24 September 2003 (24.09.2003)	Priority date (day/month/year) 30 September 2002 (30.09.2002)
Applicant NIPPON STEEL CORPORATION et al		

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this notice:

AU, AZ, BY, CH, CN, CO, DZ, EP, HU, KG, KR, MD, MK, MZ, RU, TM, US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AE, AG, AL, AM, AP, AT, BA, BB, BG, BR, BZ, CA, CR, CU, CZ, DE, DK, DM, EA, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, ID, IL, IN, IS, KE, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MG, MN, MW, MX, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, SC, SD, SE, SG, SK, SL, SY, TJ, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this notice is a copy of the international application as published by the International Bureau on 15 April 2004 (15.04.2004) under No. WO 2004/031333

4. **TIME LIMITS** for filing a demand for international preliminary examination and for entry into the national phase

The applicable time limit for entering the national phase will, subject to what is said in the following paragraph, be 30 MONTHS from the priority date, not only in respect of any elected Office if a demand for international preliminary examination is filed before the expiration of 19 months from the priority date, but also in respect of any designated Office, in the absence of filing of such demand, where Article 22(1) as modified with effect from 1 April 2002 applies in respect of that designated Office. For further details, see *PCT Gazette* No. 44/2001 of 1 November 2001, pages 19926, 19932 and 19934, as well as the *PCT Newsletter*, October and November 2001 and February 2002 issues.

In practice, time limits other than the 30-month time limit will continue to apply, for various periods of time, in respect of certain designated or elected Offices. For regular updates on the applicable time limits (20, 21, 30 or 31 months, or other time limit), Office by Office, refer to the *PCT Gazette*, the *PCT Newsletter* and the *PCT Applicant's Guide*, Volume II, National Chapters, all available from WIPO's Internet site, at <http://www.wipo.int/pct/en/index.html>.

For filing a demand for international preliminary examination, see the *PCT Applicant's Guide*, Volume I/A, Chapter IX. Only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination (at present, all PCT Contracting States are bound by Chapter II).

It is the applicant's sole responsibility to monitor all these time limits.

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(19) 世界知的所有権機関
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PCT

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BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK,
DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT,
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO,
NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,
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(84) 指定国 (広域): ARIPO 特許 (GH, GM, KE, LS, MW, MZ,
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OAPI 特許 (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

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添付公開書類:
一 国際調査報告書

2 文字コード及び他の略語については、定期発行される
各 PCT ガゼットの巻頭に掲載されている「コードと略語
のガイダンスノート」を参照。

(54) Title: CLEANING AGENT AND CLEANING METHOD FOR RIDDING TITANIUM AND TITANIUM ALLOY BUILD-
ING MATERIALS OF DISCOLORATION

(54) 発明の名称: チタンおよびチタン合金建材用の変色除去洗浄剤、および変色除去洗浄方法

(57) Abstract: A cleaning agent for removing discolored parts of titanium building materials, which comprises a water-soluble in-
organic salt, an organic acid or a salt thereof, a surfactant, and an oxygen-containing hydrophilic hydrocarbon solvent as the essential
components and contains a discoloration inhibitor, a fluororesin, and/or an abrasive at need; and a cleaning method for removing
discolored parts of titanium building material, which comprises applying the cleaning agent to discolored parts of a titanium building
material with a brush with bristles set thereon or a sponge roller, either aging the coating or rubbing the coated areas with a nonwoven
fabric or a resin foam, and then removing the discolored parts by washing with water.

(57) 要約: 建材用チタンの変色部分の除去洗浄剤は、少なくとも水に可溶な無機酸塩、有機酸若しくは有機酸塩、
界面活性剤、親水性含酸素炭化水素溶剤が含有されてなり、さらに任意に変色抑制剤、フッ素樹脂、研磨材により
構成されている。建材用チタンの変色部分の洗浄方法は、刷毛を植え付けたブラシ若しくはスポンジローラーを用
いて塗布し、塗膜を養生後あるいは塗布後塗布部分を不織布若しくは樹脂発泡体で磨き掛け後、水洗により変色部
分を除去する。



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/12147

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.⁷ C11D1/00, 3/04, 3/14, 3/20, 3/28, 3/37, 3/43, C23G1/12,
1/06, B08B1/00, 3/02, 3/08, 7/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.⁷ C11D1/00-19/00, C23G1/00-5/06, B08B1/00-13/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2001-335978 A (SUMITOMO METAL INDUSTRIES, LTD.), 07 December, 2001 (07.12.01), Abstract; Claims (Family: none)	1-24
A	JP 11-256374 A (AICHI STEEL CORP.), 21 September, 1999 (21.09.99), Abstract; Claims (Family: none)	1-24
A	JP 9-241875 A (NIPPON MINING & METALS CO., LTD.), 16 September, 1997 (16.09.97), Abstract; Claims (Family: none)	1-24

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
26 December, 2003 (26.12.03)

Date of mailing of the international search report
27 January, 2004 (27.01.04)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/12147

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 8-283970 A (NIPPON STEEL CORP.), 29 October, 1996 (29.10.96), Abstract; Claims (Family: none)	1-24
A	JP 4-323392 A (NKK CORP.), 12 November, 1992 (12.11.92), Abstract; Claims (Family: none)	1-24

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/12147

This international search has been carried out on the basis of the finding that the wording "an organic acid or an organic acid salt" in claim 8 is an error for "a surfactant".